National Transportation Safety Board Washington, DC 20594

Brief of Accident

Adopted 04/01/2003

| DEN02L | .A081 |
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| File No. 12755 | 07/24/2002 Two Buttes, CO | | Aircraft Reg No. N5416 | | Time (Local): 07:45 MDT | | |
|--|---|-------------|------------------------|--|--|----------------------|--|
| | s: 1 s): None n: Aerial Application | | Crew Pass | Fatal 0 0 | Serious 0 0 | Minor/None 1 0 | |
| Destinatio Airport Proximi | e: Doyle's Airfield n: 180 t): 2640 / 60 e: Grass/turf | nt Location | | Condition of Light: Day Weather Info Src: Weather Observation Facility Basic Weather: Visual Conditions Lowest Ceiling: None Visibility: 10.00 SM Wind Dir/Speed: 190 / 010 Kts Temperature (°C): 24 Precip/Obscuration: None / None | | | |
| Pilot-in-Command Ag Certificate(s)/Rating(s) Commercial; Single-engine Land Instrument Ratings None | e: 36 | | Т | Total Las Total M | ht Time (Hours) otal All Aircraft: 1700 Last 90 Days: 140 al Make/Model: 300 strument Time: UnK/Nr | | |

The pilot said that he was landing with a load of herbicide. During the landing roll, the airplane started to veer to the left. The pilot said he applied right rudder and right brake, but the airplane did not respond. The airplane ground looped to the left, and the right main landing gear separated from the airplane. He said all four wings appeared wrinkled, but the lower right wing was bent up. Postaccident investigation of the right brake revealed that its master brake cylinder had failed.

Brief of Accident (Continued)

DEN02LA081

File No. 12755 07/24/2002 Two Buttes, CO Aircraft Reg No. N5416 Time (Local): 07:45 MDT

Occurrence #1: AIRFRAME/COMPONENT/SYSTEM FAILURE/MALFUNCTION

Phase of Operation: LANDING - ROLL

Findings

1. (C) LANDING GEAR, NORMAL BRAKE SYSTEM - FAILURE

Occurrence #2: LOSS OF CONTROL - ON GROUND/WATER

Phase of Operation: LANDING - ROLL

Findings

2. (C) GROUND LOOP/SWERVE - INADVERTENT - PILOT IN COMMAND

Findings Legend: (C) = Cause, (F) = Factor

The National Transportation Safety Board determines the probable cause(s) of this accident as follows.

the failure of the right main landing wheel master brake cylinder and the subsequent inadvertent ground loop during the landing roll by the pilot.